

# Research Impact Evaluation Service – Two Robust Models



# Service Description and Staffing Level

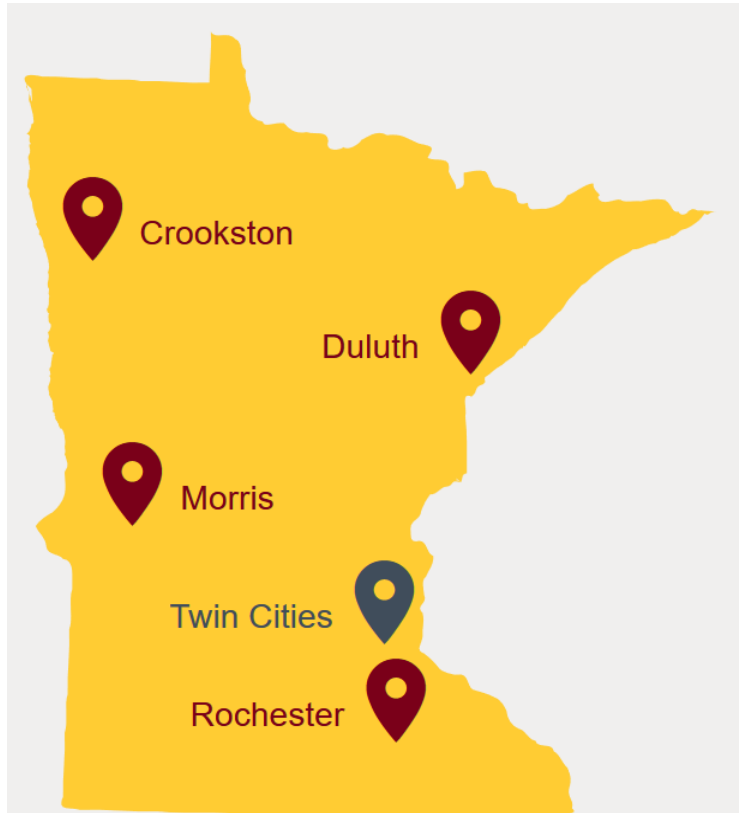
## U of Minnesota

- PURE and Manifold
- Data Warehouse
- Range of services for different purposes
- Staffing Level

## Weill Cornell

- VIVO, VIVO Dashboard and ReCiter
- Services based on use case or customer need
- Staffing Level

# University of Minnesota - Academic Health Center



- Colleges of Dentistry, Pharmacy & Veterinary Medicine
- Schools of Nursing and Public Health
- Medical School, including:
  - Mortuary Science, Physical Therapy, the History of Science, Technology & Medicine
- Centers for Allied Health
  - Occupational Therapy
  - Clinical Laboratory Science
- Duluth Campus (Pharmacy & Medicine)
- Over 90 Centers and Institutes, including the Clinical and Translational Science Institute

## Services

- Interfaces/Tools
  - Manifold
  - Experts@Minnesota
    - Publication Data Warehouse
- Reports
  - International Impact
  - Policy & News Media
  - Multidisciplinary Impact
  - Collaboration Networks
- Consultations
- Seminars

## Staffing

- Manifold Support Team
  - Libraries, Medical School, AHC IT
- Research Information Management Systems (RIMS) Team
- Policy & News Media Impact Team
- Research Outputs & Impacts Committee
- Research Services Coordinators



# Weill Cornell Medicine

- College of Medicine and Graduate School of Biomedical Sciences
- Campuses in Manhattan, Brooklyn, Queens and Doha, Qatar
- Tech Campus collaboration
- Nearly 150 organizational affiliations, including the Clin. & Trans. Sci Center
- Fast growing school with modest budget



Manhattan Weill Cornell NYP  
East River Campus

## **Automated Approach via Open Source Development**

- **VIVO Dashboard – research impact**
- **ReCiter – author disambiguation**

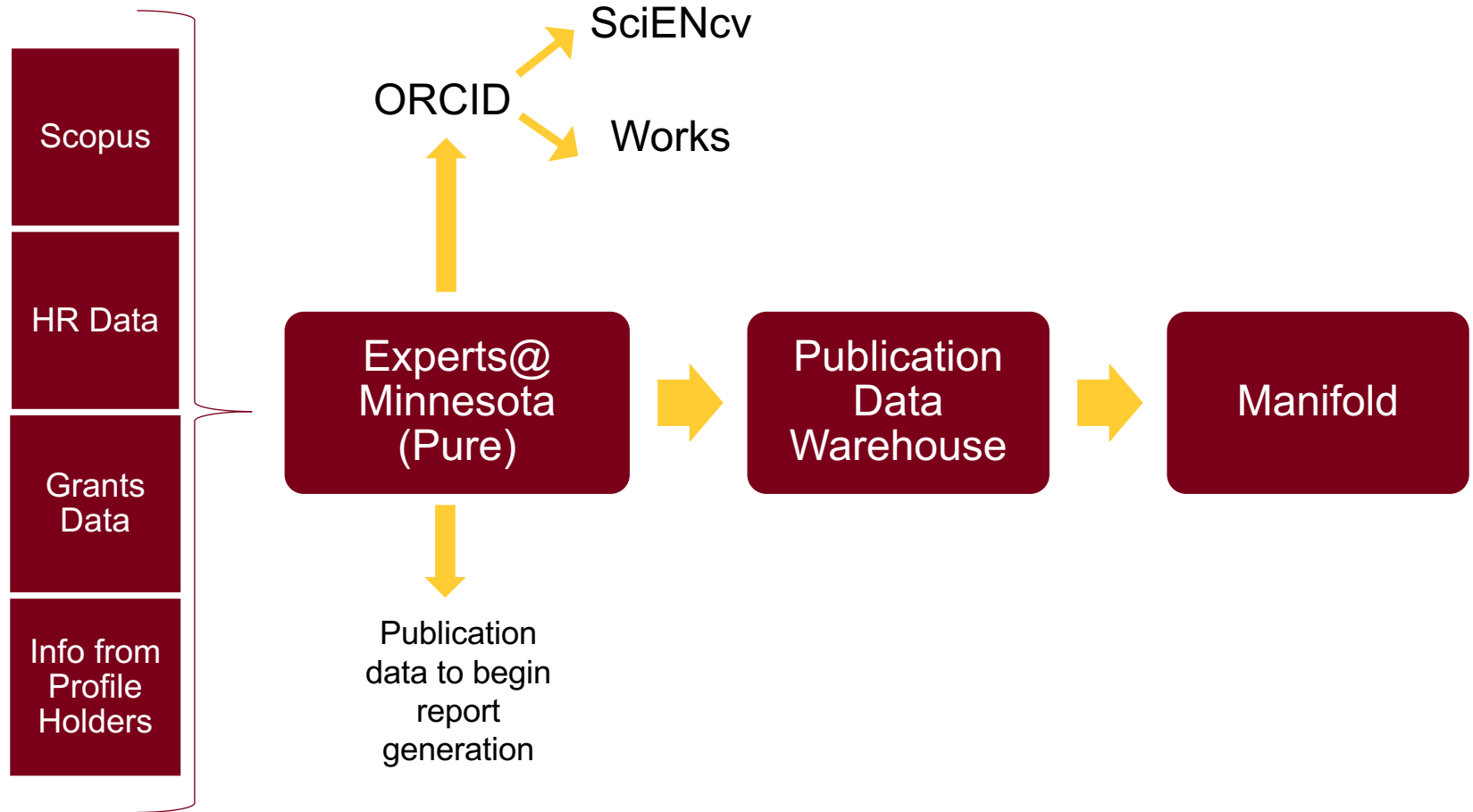


## Services

- Research impact for grants
- Tools or Systems
  - VIVO Dashboard
  - ReCiter
  - Faculty Review Tool
  - Academic Staff Mgt System
- Reports
  - Impact on science for promotion/tenure
  - Trending publications
  - Monthly new publications
  - T-32 Table 5 reports
- Consultations
- Teaching Science of Science Course for CTSC

## Staffing

- VIVO and ASMS development team
- VIVO/ASMS Steering Committee (includes Library Director & CIO)
- Librarian Identity Architect
- Research Impact Informationist
- Librarian testers / technical concierge
- Cornell Tech interns to incorporate machine learning into ReCiter





IMPACT ANALYTICS

## University of Minnesota

If you notice any inaccuracies in your profile at any time, please contact  
[manifold@umn.edu](mailto:manifold@umn.edu).

QUICK

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CUSTOM

REPORTS

Enter faculty or department name



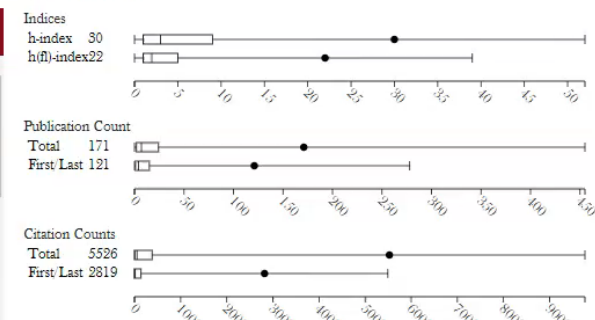
# William O Roberts

Professor | Family Medicine and Community Health

## ? Most-cited publications (top 10)

| Title   | Cover Date | Journal  | Authors   | Scopus Citations |
|---|------------|--|---|------------------|
| <a href="#">Recommendations and considerations related to preparticipation screening for cardiovascular abnormalities in competitive athletes</a> | 2007-03-01 | <i>Circulation</i>                                 | Maron, Barry J.; Thompson, P.; Ackerman, Michael J.; Balady, Gary; Berger, Stuart; Cohen, David J.; Dimeff, Robert; Douglas, Pamela S.; Glover, David W.; Hutter, Adolph M.; ...                | 716              |
| <a href="#">National Athletic Trainers' Association Position Statement</a>  | 2000-04-01 | <i>Journal of Athletic Training</i>                | Casa, Douglas J.; Armstrong, Lawrence E.; Hillman, Susan K.; Montain, Scott J.; Reiff, Ralph V.; Rich, Brent S.E.; <b>Roberts, William O</b> ; Stone, Jennifer A.;                              | 520              |
| <a href="#">American Medical Society for Sports Medicine position statement</a>   | 2013-01-01 | <i>British journal of sports medicine</i>          | Harmon, Kimberly G.; Drezner, Jonathan A.; Gammons, Matthew; Guskiewicz, Kevin; Halstead, Mark; Herring, Stanley A.; Kutcher, Jeff; Pana, Andrea; Putukian, Margot; <b>Roberts, William O</b> ; | 516              |
| <a href="#">Exertional heat illness during training and competition</a>   | 2007-03-01 | <i>Medicine and Science in Sports and Exercise</i> | Armstrong, Lawrence E.; Casa, Douglas J.; Millard-Stafford, Mindy; Moran, Daniel S.; Pyne, Scott W.; <b>Roberts, William O</b> ;  | 480              |
| <a href="#">Cardiac arrest during long-distance running races</a>   | 2012-01-12 | <i>New England Journal of Medicine</i>             | Kim, Jonathan H.; Malhotra, Rajeev; Chlamps, George; D'Hemecourt, Pierre; Troyanos, Chris; Cianca, John; Smith, R. N.; Wapp, Thomas J.; <b>Roberts, William O</b> ; Thompson, P.                | 292              |

## ? Overview

Journal articles,  through [Download all records](#) | [Generate citations](#)

| Title   | Cover Date | Journal                                   | Authors   | Scopus Citations |
|---|------------|---|---|------------------|
| <a href="#">Medical encounters (including injury and illness) at mass community-based endurance sports events</a> | 2019-09-01 | <i>British journal of sports medicine</i> | Schwellnus, Martin; Kipps, Courtney; <b>Roberts, William O</b> ; Drezner, Jonathan A.; D'Hemecourt, Pierre; Troyanos, Chris; Janse Van Rensburg, Dina; Christina; Killops, Jannelene; Borresen, Jill; Harrast, Mark A.; ... | 1                |
| <a href="#">American Medical Society for Sports Medicine Position Statement on Concussion in Sport</a>            | 2019-03-01 | <i>Clinical Journal of Sport Medicine</i> | Harmon, Kimberly G.; Clugston, James R.; Dec, Katherine L.; Hainline, Brian; Herring, Stanley A.; Kane, Shawn F.; Kontos, A.; Leddy, John J.; McCrea, Michael; Poddar, Sourav K.; ...                                       | 1                |
| <a href="#">An indelible stain</a>  | 2019-03-01 | <i>Current sports medicine reports</i>    | <b>Roberts, William O</b> ;   | 0                |
| <a href="#">American Medical Society for Sports Medicine position statement on concussion in sport</a>            | 2019-02-01 | <i>British journal of sports medicine</i> | Harmon, Kimberly G.; Clugston, James R.; Dec, Katherine L.; Hainline, Brian; Herring, Stanley A.; Kane, Shawn F.; Kontos, A.; Leddy, John J.; McCrea, Michael; Poddar, Sourav K.; ...                                       | 3                |
| <a href="#">Youth Distance Running</a>  | 2019-02-01 | <i>Current sports medicine reports</i>    | Krabak, Brian J.; Tenforde, Adam S.; Davis, Irene S.; Fredericson, Michael; Harrast, Mark A.; D'Hemecourt, Pierre; Luke, Anthony C.;  | 0                |

## ? Impact Analytics

### Publications ranked by citation count

Here, this individual's publications are ranked in descending order by citation

700





# VIVO Dashboard



Publications

**Citation Impact**

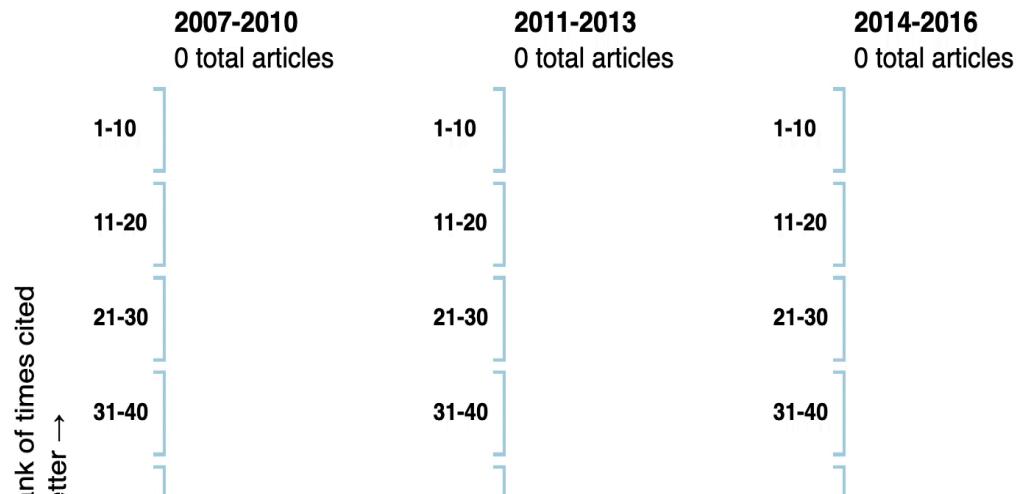
Citation Lookup Tool

**Pictograph**

FAQ

## Citation Impact - Pictograph

About the Citation Impact Tool



Author Name

  
Enter an author name.

Organization

- ☐ Weill Cornell Medical College
- ☐ Medicine
- ☐ Memorial Sloan Kettering Cancer Center
- Show more

Publication Type

- ☐ Academic Article
- ☐ Review

First/Last Author Position

- ☐ First
- ☐ Last



## Yi Wang, Ph.D.

Professor of Physics in Radiology

Weill Cornell Medical College, Cornell University

Accepted 217 Suggested 4 Rejected 70 Add Publication

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Reject all on page

Filter...

Sort by Score ↓

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Show records 20

« 1 »

Accept

Reject

Evidence  
Score

10

**Authors:** Shun Zhang, Zhe Liu, Thanh D Nguyen, Yihao Yao, Kelly M Gillen, Pascal Spincemaille, Ilhami Kovanlikaya, Ajay Gupta, Yi Wang

**Title:** Clinical feasibility of brain quantitative susceptibility mapping.

**Journal:** Magnetic resonance imaging

**Date:** 2019 Apr 04

+ [Show evidence behind this suggestion](#)

PubMed

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Accept

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Evidence  
Score

10

**Authors:** Y Zhang, S A Gauthier, A Gupta, W Chen, J Comunale, G C-Y Chiang, D Zhou, G Askin, W Zhu, D Pitt, Y Wang

**Title:** Quantitative Susceptibility Mapping and R2\* Measured Changes during White Matter Lesion Development in Multiple Sclerosis: Myelin Breakdown, Myelin Debris Degradation and Removal, and Iron Accumulation.

**Journal:** AJNR. American journal of neuroradiology

**Date:** 2016 Jun 02

+ [Show evidence behind this suggestion](#)

PubMed

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Evidence  
Score

10

**Authors:** Simon Hubertus, Sebastian Thomas, Junghun Cho, Shun Zhang, Yi Wang, Lothar Rudi Schad

**Title:** Using an artificial neural network for fast mapping of the oxygen extraction fraction with combined QSM and quantitative BOLD.

**Journal:** Magnetic resonance in medicine

**Date:** 2019 Jul 04

+ [Show evidence behind this suggestion](#)

PubMed

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**Authors:** Mari Miyata, Shingo Kakeda, Yasuko Toyoshima, Satoru Ide, Kazumasa Okada, Hiroaki Adachi, Yi Wang, Yukunori Korogi

**Title:** Potential usefulness of signal intensity of cerebral gyri on quantitative susceptibility mapping for discriminating corticobasal degeneration from progressive supranuclear palsy and



## Future: Remove Administrative Burden

### Publication Reporting

- Interactive citation impact reports (aid decision-making)
- Limit by 180+ departments and divisions
- Limit by first/last author
- One-click CV generation
- Reduce manual CV updates
- Generate T32 publication tables for grant renewals

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[View 21 datasets](#) [View 1 data providers](#) [View 0 data use agreements](#) [View 0 data access requirements](#) [View 4 keywords](#)

#### Dynamic Epilepsy Database (DED)

**Data Provider:** [Architecture for Research Computing in Health \(ARCH\)](#)

**description**

A data set aggregating both patient-level and procedure-level data for WCM patients with epilepsy (n = ~28,000).

|                     |   |
|---------------------|---|
| Record Period Start | Jan. 1, 2007                                |
| Record Period End   | None  |
| Keywords            | <a href="#">ARCH</a><br><a href="#">RDR</a> |

#### Mitochondrial Biomarkers for the Onset and Severity of Sepsis (MBOSS)

**Data Provider:** [Architecture for Research Computing in Health \(ARCH\)](#)

**description**

A data mart designed to study early predictors of sepsis and the associated outcomes of different treatment approaches in a group of WCM patients presenting in the emergency department and consented to a specific protocol (n = ~300). Contains data from inpatient flowsheets, diagnoses, medications, microbiology lab results, blood bank systems, and others, including calculated critical care variables, such as Sequential Organ Failure (SOFA) score and others. Data can also be connected to banked specimens.

|                     |   |
|---------------------|---|
| Record Period Start | Jan. 1, 2007                                |
| Record Period End   | None  |
| Keywords            | <a href="#">ARCH</a><br><a href="#">RDR</a> |

#### Neurologic Intensive Care Unit (NICU) Registry

**Data Provider:** [Architecture for Research Computing in Health \(ARCH\)](#)

**description**

A data mart designed to support existing registry efforts by supplying demographic data, diagnoses, medications, laboratory values, procedures, visits, and more for WCM patients seen in the neurologic intensive care unit (n = ~5,200)



# Service Value & Institutional Partnerships

- Publications Reporting which demonstrates Research Impact:
  - VIVO Dashboard
  - T-32 grant support
  - Faculty Evaluation System



## Institutional Value of Service

- Strengthen research culture and infrastructure
- Demonstrates institutional impact on research
- Enhance recruitment and retention of diverse faculty, trainees, and students
- Supports Promotion and Tenure Decisions
- Part of Faculty Evaluation System

# University of Minnesota - Academic Health Center

## Strategic Vision and Goals

**Build an exceptional University  
where grand societal challenges  
are addressed—leverage the  
breadth of our research and  
curricular strengths**

**Capitalize on our location; build a  
culture of reciprocal engagement**

**Embrace excellence and  
reject complacency**

**Recruit and retain  
field-shaping researchers  
and teachers**

***Preeminent in  
Solving the  
Grand Challenges  
of a Diverse and  
Changing World***

*Strategic Plan | University of Minnesota Twin Cities*

UNIVERSITY OF MINNESOTA  
**Driven to Discover™**



# Q&A

Additional resources:

[z.umn.edu/impact-evaluation-bibliography](https://z.umn.edu/impact-evaluation-bibliography)

<https://github.com/wcmc-its/ReCiter>

<https://github.com/wcmc-its/vivodashboard>